



Shri Vile Parle Kelavani Mandal's

**DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING**

(Autonomous College Affiliated to the University of Mumbai)

NAAC Accredited with "A" Grade (CGPA : 3.18)



**Academic Year (2022-23)**

**Year: 3 Semester: V**

**Program: B. Tech. (Chemical Engg.)**

**Subject: Green Technologies and Practices**

**Max. Marks: 75**

**Course Code: DJ19CHHN1C1**

**Time: 10.30 am to 1.30 pm**

**Date: 3/1/23**

**Duration: 3 hours**

**REGULAR EXAMINATION**

**Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover page of the Answer Book, which is provided for their use.**

- (1) This question paper contains two pages.
- (2) **All Questions are Compulsory.**
- (3) All questions carry equal marks.
- (4) **Answer to each new question is to be started on a fresh page.**
- (5) **Figures in the brackets on the right indicate full marks.**
- (6) **Assume suitable data wherever required, but justify it.**
- (7) Draw the neat labelled diagrams, wherever necessary.

Question No.		Max. Marks
Q1 (a)	What is atom economy.  OR What is ecological footprint.	[05]  [05]
Q1 (b)	Explain sources of wastes and their management methods.	[10]
Q2 (a)	Explain basic principles of Green chemistry.  OR Explain steps of Life Cycle Assessment.	[10]  [10]
Q2 (b)	What are carbon credits.	[05]
Q3 (a)	How can Green economy be attained?  OR Write notes on ISO 14000.	[05]  [05]
Q3 (b)	Explain electricity generation using geothermal energy.	[10]
Q4 (a)	Give various Biomass Conversion Technologies.  OR Give different environmental, economic and social impacts of green fuels.	[10]  [10]
Q4 (b)	What are Principles of Cleaner Production?	[05]



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Q5 (a)	<b>Explain any two: -</b> i. Vertical-Axis Turbines ii. Hurdles in using solar energy iii. Concentrated Solar Power iv. Advantages of Tidal Energy	 [05] [05] [05] [05]
Q5 (b)	What is dye-sensitized solar cell?	[05]

All the Best!